

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/884,319

DATE: 11/29/2002 TIME: 16:01:32

Input Set : N:\Crf3\RULE60\09884319.raw Output Set: N:\CRF4\11292002\I884319.raw

SEQUENCE LISTING

```
(1) GENERAL INFORMATION:
      5
             (i) APPLICANT: Lin, Lih-Ling
      6
                            Graham, James
            (ii) TITLE OF INVENTION: NOVEL INTERLEUKIN-1 RECEPTOR
      8
      9
                                     INTRACELLULAR LIGAND PROTEINS AND INHIBITORS OF LIGAND
     10
     12
           (iii) NUMBER OF SEQUENCES: 7
            (iv) CORRESPONDENCE ADDRESS:
     1.4
                  (A) ADDRESSEE: LEGAL AFFAIRS, GENETICS INSTITUTE, INC.
     15
     16
                  (B) STREET: 87 CambridgePark Drive
                                                             ENTERED
     17
                  (C) CITY: Cambridge
     18
                  (D) STATE: MA
                  (E) COUNTRY: USA
     19
     20
                  (F) ZIP: 02140
     22
            (v) COMPUTER READABLE FORM:
                  (A) MEDIUM TYPE: Floppy disk
     23
                  (B) COMPUTER: IBM PC compatible
     24
     25
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     26
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     28
           (vi) CURRENT APPLICATION DATA:
C--> 29
                  (A) APPLICATION NUMBER: US/09/884,319
C--> 30
                  (B) FILING DATE: 18-Jun-2001
     31
                  (C) CLASSIFICATION:
     33
           (vii) PRIOR APPLICATION DATA:
     34
                  (A) APPLICATION NUMBER: US/09/083,516
     35
                  (B) FILING DATE:
     37
                  (A) APPLICATION NUMBER: 08/487,942
     38
                  (B) FILING DATE:
     40 (viii) ATTORNEY/AGENT INFORMATION:
     41
                  (A) NAME: Brown, Scott A.
     42
                  (B) REGISTRATION NUMBER: 32,724
     43
                  (C) REFERENCE/DOCKET NUMBER: GI5258
     45
            (ix) TELECOMMUNICATION INFORMATION:
    46
                  (A) TELEPHONE: (617) 498-8224
                  (B) TELEFAX: (617) 876-5851
     50 (2) INFORMATION FOR SEQ ID NO: 1:
    52
            (i) SEQUENCE CHARACTERISTICS:
    53
                  (A) LENGTH: 1571 base pairs
    54
                  (B) TYPE: nucleic acid
     55
                  (C) STRANDEDNESS: double
    56
                  (D) TOPOLOGY: linear
```

(ii) MOLECULE TYPE: cDNA

58

RAW SEQUENCE LISTING DATE: 11/29/2002 PATENT APPLICATION: US/09/884,319 TIME: 16:01:32

Input Set : N:\Crf3\RULE60\09884319.raw
Output Set: N:\CRF4\11292002\1884319.raw

60 (iii) HYPOTHETICAL: NO . 63 (ix) FEATURE:										
64 (A) NAME/KEY: CDS										
65 (B) LOCATION: 2529										
68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 70 G ATC CCC AGG GTG GAC CTC CGG GTG TGG CAG GAC TGC TGT GAA GAC	46									
71 Ile Pro Arg Val Asp Leu Arg Val Trp Gln Asp Cys Cys Glu Asp	40									
72 1 5 10 115 115 115 115 115 115 115 115										
74 TGT AGG ACC AGG GGG CAG TTC AAT GCC TTT TCC TAT CAT TTC CGA GGC	94									
75 Cys Arg Thr Arg Gly Gln Phe Asn Ala Phe Ser Tyr His Phe Arg Gly										
76 20 25 30										
78 AGA CGG TCT CTT GAG TTC AGC TAC CAG GAG GAC AAG CCG ACC AAG AAA	142									
79 Arg Arg Ser Leu Glu Phe Ser Tyr Gln Glu Asp Lys Pro Thr Lys Lys										
80 35 40 45	190									
82 ACA AGA CCA CGG AAA ATA CCC AGT GTT GGG AGA CAG GGG GAA CAT CTC 83 Thr Arg Pro Arg Lys Ile Pro Ser Val Gly Arg Gln Gly Glu His Leu	190									
84 50 55 60										
86 AGC AAC AGC ACC TCA GCC TTC AGC ACA CGC TCA GAT GCA TCT GGG ACA	238									
87 Ser Asn Ser Thr Ser Ala Phe Ser Thr Arg Ser Asp Ala Ser Gly Thr										
88 65 70 75										
90 AAT GAC TTC AGA GAG TTT GTT CTG GAA ATG CAG AAG ACC ATC ACA GAC	286									
91 Asn Asp Phe Arg Glu Phe Val Leu Glu Met Gln Lys Thr Ile Thr Asp										
92 80 85 90 95										
94 CTC AGA ACA CAG ATA AAG AAA CTT GAA TCA CGG CTC AGT ACC ACA GAG	334									
95 Leu Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg Leu Ser Thr Thr Glu										
96 100 105 110	382									
98 TGC GTG GAT GCC GGG GGC GAA TCT CAC GCC AAC AAC ACC AAG TGG AAA 99 Cys Val Asp Ala Gly Gly Glu Ser His Ala Asn Asn Thr Lys Trp Lys	362									
100 115 120 125										
102 AAA GAT GCA TGC ACC ATT TGT GAA TGC AAA GAC GGG CAG GTC ACC TGC	430									
103 Lys Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp Gly Gln Val Thr Cys										
104 130 135 140										
106 TTC GTG GAA GCT TGC CCC CCT GCC ACC TGT GCT GTC CCC GTG AAC ATC	478									
107 Phe Val Glu Ala Cys Pro Pro Ala Thr Cys Ala Val Pro Val Asn Ile										
108 145 150 155										
110 CCA GGG GCC TGC TGT CCA GTC TGC TTA CAG AAG AGG GCG GAA AAG	526									
111 Pro Gly Ala Cys Cys Pro Val Cys Leu Gln Lys Arg Ala Glu Glu Lys										
112 160 165 170 175	579									
114 CCC TAGGCTCCTG GGAGGCTCCT CAGAGTTTGT CTGCTGTGCC ATCGTGAGAT 115 Pro	. 579									
118 CGGGTGGCCG ATGGCAGGGA GCTGCGGACT GCAGACCAGG AAACACCCAG AACTCGTGAC	639									
120 ATTTCATGAC AACGTCCAGC TGGTGCTGTT ACAGAAGGCA GTGCAGGAGG CTTCCAACCA	699									
122 GAGCATCTGC GGAGAAGGAG GCACAGCAGG TGCCTGAAGG GAAGCAGGCA GGAGTCCTAG	759									
124 CTTCACGTTA GACTTCTCAG GTTTTTATTT AATTCTTTTA AAATGAAAAA TTGGTGCTAC	819									
126 TATTAAATTG CACAGTTGAA TCATTTAGGC GCCTAAATTG ATTTTGCCTC CCAACACCAT	879									
128 TTCTTTTTAA ATAAAGCAGG ATACCTCTAT ATGTCAGCCT TGCCTTGTTC AGATGCCAGG	939									
130 AGCCGGCAGA CCTGTCACCC GCAGGTGGGG TGAGTCTCGG AGCTGCCAGA GGGGCTCACC	999									
132 GAAATCGGGG TTCCATCACA AGCTATGTTT AAAAAGAAAA TTGGTGTTTG CCAAACGGAA	1059									
134 CAGAACCTTT GATGAGAGCG TTCACAGGGA CACTGTCTGG GGGTGCAGTG CAAGCCCCCG	1119									

RAW SEQUENCE LISTING DATE: 11/29/2002 PATENT APPLICATION: US/09/884,319 TIME: 16:01:32

Input Set: N:\Crf3\RULE60\09884319.raw
Output Set: N:\CRF4\11292002\1884319.raw

```
136 GCCTCTTCCC TGGGAACCTC TGAACTCCTC CTTCCTCTGG GCTCTCTGTA ACATTTCACC
                                                                          1179
138 ACACGTCAGC ATCTAATCCC AAGACAACA TTCCCGCTGC TCGAAGCAGC TGTATAGCCT
                                                                          1239
140 GTGACTCTCC GTGTGTCAGC TCCTTCCACA CCTGATTAGA ACATTCATAA GCCACATTTA
                                                                          1299
142 GAAACAGGTT TGCTTTCAGC TGTCACTTGC ACACATACTG CCTAGTTGTG AACCAAATGT
                                                                          1359
144 GAAAAAACCT CCTTCATCCC ATTGTGTATC TGATACCTGC CGAGGGCCAA GGGTGTGTGT
                                                                          1419
146 TGACAACGCC GCTCCCAGCC GGCCCTGGTT GCGTCCACGT CCTGAACAAG AGCCGCTTCC
                                                                          1479
148 GGATGGCTCT TCCCAAGGGA GGAGGAGCTC AAGTGTCGGG AACTGTCTAA CTTCAGGTTG
                                                                          1539
150 TGTGAGTGCG TTAAAAAAA AAAAAAAAAA AA
                                                                          1571
153 (2) INFORMATION FOR SEQ ID NO: 2:
        (i) SEQUENCE CHARACTERISTICS:
155
              (A) LENGTH: 176 amino acids
156
157
              (B) TYPE: amino acid
              (D) TOPOLOGY: linear
158
160
       (ii) MOLECULE TYPE: protein
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
164 Ile Pro Arg Val Asp Leu Arg Val Trp Gln Asp Cys Cys Glu Asp Cys
                                         10
167 Arg Thr Arg Gly Gln Phe Asn Ala Phe Ser Tyr His Phe Arg Gly Arg
                 20
                                     25
170 Arg Ser Leu Glu Phe Ser Tyr Gln Glu Asp Lys Pro Thr Lys Lys Thr
                                 40
173 Arg Pro Arg Lys Ile Pro Ser Val Gly Arg Gln Gly Glu His Leu Ser
176 Asn Ser Thr Ser Ala Phe Ser Thr Arg Ser Asp Ala Ser Gly Thr Asn
                         70
179 Asp Phe Arg Glu Phe Val Leu Glu Met Gln Lys Thr Ile Thr Asp Leu
                                         90
182 Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg Leu Ser Thr Thr Glu Cys
                100
                                    105
185 Val Asp Ala Gly Gly Glu Ser His Ala Asn Asn Thr Lys Trp Lys Lys
           115
                                120
188 Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp Gly Gln Val Thr Cys Phe
      130
                            135
                                                140
191 Val Glu Ala Cys Pro Pro Ala Thr Cys Ala Val Pro Val Asn Ile Pro
                        150
                                            155
194 Gly Ala Cys Cys Pro Val Cys Leu Gln Lys Arg Ala Glu Glu Lys Pro
                    165
                                        170
198 (2) INFORMATION FOR SEQ ID NO: 3:
200
         (i) SEQUENCE CHARACTERISTICS:
201
              (A) LENGTH: 1088 base pairs
202
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: double
203
204
              (D) TOPOLOGY: linear
       (ii) MOLECULE TYPE: cDNA
206
208
       (iii) HYPOTHETICAL: NO
211
       (ix) FEATURE:
212
              (A) NAME/KEY: CDS
213
              (B) LOCATION: 2..961
216
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
```

RAW SEQUENCE LISTING DATE: 11/29/2002 PATENT APPLICATION: US/09/884,319 TIME: 16:01:32

Input Set : N:\Crf3\RULE60\09884319.raw
Output Set: N:\CRF4\11292002\1884319.raw

219	G A		AA GO ys Gi							sp G.					ro Ti		46
220	AAC	_	CAC	ጥጥረ	አ ር	-	лст	CCC	λλC			CTC	CCC	CAC		-	94
	Asn																74
223	ASII	гуз	птэ	rne	20	GIII	Ser	110	цуз	25	Ser	Vai	ήτα	лэр	30	пса	
	GGG	TCC	ттт	GAA		ΔΔΔ	CGA	AGA	СТС		CTG	АТС	АСТ	GCT		AAG	142
	Gly																
228	O _T y	001	1110	35	OT I	ш, о		9	40	200				45		-1-	
	GCT	GAG	AAC		ATG	TAT	GTG	CAA		CGT	GAT	GAA	TAT		GAA	AGT	190
	Ala																
232			50			-2		55		,	-		60				
234	TTC	TGC	AAG	ATG	GCT	ACC	AGG	AAA	ATC	TCT	GTG	ATC	ACC	ATC	TTC	GGC	238
235	Phe	Cys	Lys	Met	Ala	Thr	Arg	Lys	Ile	Ser	Val	Ile	Thr	Ile	Phe	Gly	
236		65					70					75					
238	CCT	GTC	AAC	AAC	AGC	ACC	ATG	AAA	ATC	GAC	CAC	TTT	CAG	CTA	GAT	AAT	286
239	Pro	Val	Asn	Asn	Ser	Thr	Met	Lys	Ile	Asp	His	Phe	Gln	Leu	Asp	Asn	
240	80					85					90					95	
	GAG																334
243	Glu	Lys	Pro	Met	Arg	Val	Val	Asp	Asp	Glu	Asp	Leu	Val	Asp	Gln	Arg	
244					100					105					110		
	CTC																382
	Leu	Ile	Ser		Leu	Arg	Lys	Glu		Gly	Met	Thr	Tyr		Asp	Phe	
248				115					120				~	125			420
	TTC																430
	Phe	Met		Leu	Thr	Asp	Va⊥	_	Leu	Arg	Val	Lys		Tyr	Tyr	GLu	•
252	C III 7	CC7	130	7 (7	7 m.c	77.0	m.cm	135	mmm	C N III	CITIC	7 III C	140	n cm	mmc	CAC	478
	GTA																4 / 0
	Val		тте	1111	мес	ьуѕ	150	Val	Pne	ASP	ьеи	155	ASP	111T	rne	GIII	
256	TCC	145	አጥ <u>ሮ</u>	אאא	СЛТ	ስጥር		አልር	CAG	ΔΔC	200		GGC	עיזי ע	CTT	ፕርር	526
	Ser																320
	160	my	110	БуЗ	пор	165	Olu	шуо	0111	LyS	170	01.4	O± y	110	• • • •	175	
	AAA	GAG	GAA	GTT	GGG		GTG	TTA	GAA	CTG		CCA	ATT	AAT	GGG		574
	Lys																
264					180	-				185					190		
266	TCT	GTT	GTT	GAG	CGA	GAA	GAC	GTA	CCA	GCC	CAT	TTG	GTG	AAA	GAC	ATT	622
267	Ser	Val	Val	Glu	Arg	Glu	Asp	Val	Pro	Ala	His	Leu	Val	Lys	Asp	Ile	
268				195					200					205			
270	CGT	AAC	TAT	TTT	CAA	GTG	AGC	CCG	GAG	TAC	TTC	TCC	ATG	CTT	CTA	GTC	670
271	Arg	Asn	Tyr	Phe	Gln	Val	Ser	Pro	Glu	Tyr	Phe	Ser	Met	Leu	Leu	Val	
272			210					215					220				
	GGA																718
	Gly	_	Asp	Gly	Asn	Val	_	Ser	Trp	Tyr	Pro		Pro	Met	Trp	Ser	
276		225					230			m		235	~	000	202	OT 2	7.00
	ATG																766
	Met	val	тте	val	Tyr		ьeu	тте	Asp	ser		GIN	ьеи	Arg	Arg		
	240	7 m~	000	7 CC CC	CT C	245	m 🔿 🛪	Cm.C	000	7 m.c	250	mcc.	CT.C	7.7.0	7 m.c	255	814
282	GAA	AIG	GCG	AII	CHG	CAG	I CH	CIG	טטט	AIG	CGC	100	CAG	HMG	AIG	MGI	014



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/884,319 T

DATE: 11/29/2002 TIME: 16:01:32

Input Set : N:\Crf3\RULE60\09884319.raw
Output Set: N:\CRF4\11292002\1884319.raw

283 Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg Cys Gln Lys Met Ser												
284 260 265 270												
286 ATG CAG GCT ATG GTT ACC ATA GTT ACC ACC AAG GAT ACC AGG ATG GTT	862											
287 Met Gln Ala Met Val Thr Ile Val Thr Thr Lys Asp Thr Arg Met Val												
288 275 280 285	010											
290 ACC AGG ATG ACT ACC GTC ATG AGA GTT ATC ACC ATG GAT ACC CTT	910											
291 Thr Arg Met Thr Thr Val Ile Met Arg Val Ile Thr Met Asp Thr Leu 292 290 295 300												
292 290 295 300 . 294 ACT GAG CAG AAA TAT GTA ACC TTA GAC TCA GCC AGT TTC CTC TGC AGC	958											
295 Thr Glu Gln Lys Tyr Val Thr Leu Asp Ser Ala Ser Phe Leu Cys Ser	300											
296 305 310 315												
98 TGC TAAAACTACA TGTGGCCAGC TCCATTCTTC CACACTGCGT ACTACATTTC												
299 Cys												
300 320												
302 CTGCCTTTTT CTTTCAGTGT TTTTCTAAGA CTAAATAAAT AGCAAACTTT CACCTAAAAA	1071											
304 AAAAAAAA AAAAAAA	1088											
307 (2) INFORMATION FOR SEQ ID NO: 4:												
309 (i) SEQUENCE CHARACTERISTICS:												
310 (A) LENGTH: 320 amino acids												
311 (B) TYPE: amino acid												
312 (D) TOPOLOGY: linear												
314 (ii) MOLECULE TYPE: protein 316 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:												
318 Lys Lys Gly Gly Lys Thr Glu Gln Asp Gly Tyr Gln Lys Pro Thr Asn												
319 1 5 10 15												
321 Lys His Phe Thr Gln Ser Pro Lys Lys Ser Val Ala Asp Leu Gly												
322 20 25 30												
324 Ser Phe Glu Gly Lys Arg Arg Leu Leu Leu Ile Thr Ala Pro Lys Ala												
325 35 40 45												
327 Glu Asn Asn Met Tyr Val Gln Gln Arg Asp Glu Tyr Leu Glu Ser Phe												
328 50 55 60												
330 Cys Lys Met Ala Thr Arg Lys Ile Ser Val Ile Thr Ile Phe Gly Pro												
331 65 70 75 80 333 Val Asn Asn Ser Thr Met Lys Ile Asp His Phe Gln Leu Asp Asn Glu												
334 85 90 95												
336 Lys Pro Met Arg Val Val Asp Asp Glu Asp Leu Val Asp Gln Arg Leu												
337 100 105 110												
339 Ile Ser Glu Leu Arg Lys Glu Tyr Gly Met Thr Tyr Asn Asp Phe Phe												
340 115 120 125												
342 Met Val Leu Thr Asp Val Asp Leu Arg Val Lys Gln Tyr Tyr Glu Val												
343 130 135 140												
345 Pro Ile Thr Met Lys Ser Val Phe Asp Leu Ile Asp Thr Phe Gln Ser												
346 145 150 155 160												
348 Arg Ile Lys Asp Met Glu Lys Gln Lys Glu Gly Ile Val Cys Lys												
349 165 170 175												
351 Glu Glu Val Gly Gly Val Leu Glu Leu Phe Pro Ile Asn Gly Ser Ser 352 180 185 190												
352 180 185 190 354 Val Val Glu Arg Glu Asp Val Pro Ala His Leu Val Lys Asp Ile Arg												
355 195 200 205												
200 200												

VERIFICATION SUMMARY

DATE: 11/29/2002 TIME: 16:01:33 PATENT APPLICATION: US/09/884,319

Input Set : N:\Crf3\RULE60\09884319.raw Output Set: N:\CRF4\11292002\I884319.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]